

Wearable Robotics I

Date / Time Aug. 22 (Mon.), 2022 / 10:15-11:30

Room Room 517

Session Chair TBA

[MoO1A.1]

10:15-10:30

Human-Robot Interaction: Muscle Activation and Angular Location Affect Soft Tissue Stiffness

Saad N. Yousaf, Keya Ghonasgi, Paria Esmatloo, and Ashish D. Deshpande

[MoO1A.2]

10:30-10:45

Reactive Postural Control during Sit-to-Stand Motion

Tatiana D. Luna, Victor Santamaria, Xupeng Ai, and Sunil K. Agrawal

[MoO1A.3]

10:45-11:00

Reinforcement Learning-Based Adaptive Biofeedback Engine for Overground Walking Speed Training

Huanghe Zhang, Shuai Li, Qingya Zhao, Ashwini K. Rao, Yi Guo, and Damiano Zanotto

[MoO1A.4]

11:00-11:15

2.5D Laser-Cutting-Based Customized Fabrication of Long-Term Wearable Textile sEMG Sensor: From Design to Intention Recognition

Hwayeong Jeong, Jirou Feng, and Jung Kim

[MoO1A.5]

11:15-11:30

Effect of External Damping on Ankle Motion during the Swing Phase of Walking

Chinmay Jategaonkar, Yogesh Singh, and Vineet Vashista